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(71) Applicant (for all designated States except US): ELEC-
TROMAGNETIC GEOSERVICES AS [NO/NO]; Stik-
lestadveien 1, N-7041 Trondheim (NO).

(71) Applicant (for US only): REES, David, Christopher
[GB/GB]; Kilburn & Strode, 20 Red Lion Street, London
WC1R 4PJ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): EIDESMO, Terje
[NO/NO]; Markapl. 5, N-7054 RANHEIM (NO).
ELLINGSRUD, Svein [NO/NO]; Tyholt alle 9A, N-7052
Trondheim (NO). FARESTVEIT, Anders [NO/NO];
Kollevien 15, N-1397 Nesoya (NO). PEDERSEN, Hans,
Magne [NO/NO]; Hans Hagrups gate 8, N-7012 Trond-
heim (NO). JOHANSEN, Stale [NO/NO]; Loddgardstroa
27B, N-7224 Melhus (NO).

(74) Agents: REES, David, Christopher et al.; Kilburn &
Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

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(57) Abstract: A system for investigating subterranean strata. An electromagnetic field and a seismic event are applied from the same location and the responses are detected using respective receivers both located at a second location spaced from the first. The responses are combined to identify the presence and/or nature of subterranean reservoir. The refracted wave components are used.